

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-211642

(43)Date of publication of application : 31.07.2002

(51)Int.Cl.

B65D 77/00
A23F 3/16
A23F 5/24
A47J 31/08

(21)Application number : 2001-005625

(71)Applicant : TOKIWA KOGYO:KK

(22)Date of filing : 12.01.2001

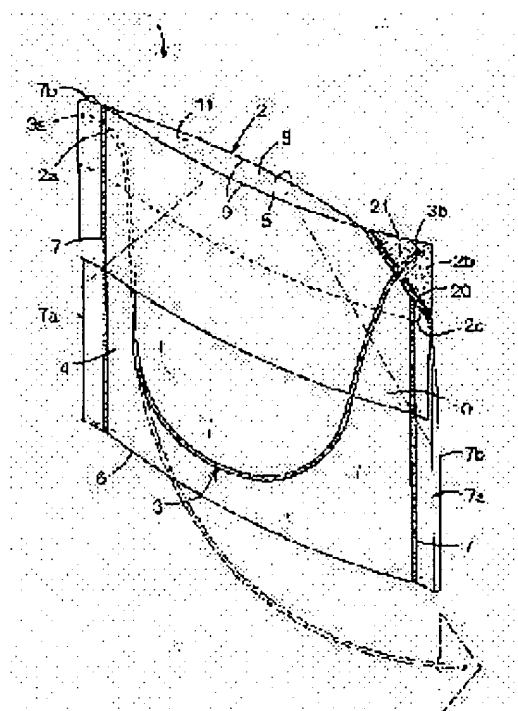
(72)Inventor : AOKI TSUNEO

(54) BAG FOR FILTER WHICH HAS HANGING STRING

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a bag having a hanging string wherein the packaging work is easy, and at the same time, both of the manhours of the manufacture and the number of parts are not increased when the bag having the string for a filter in order to extract shaved dried fish, tea leaves or the like is manufactured.

SOLUTION: A first sheet 4 and a second sheet 5 having liquid permeability are superposed and integrated. Then, an opening 8 is formed at the upper end, and a bottom section 6 is formed at the lower end. At the same time, on the external side of the first sheet 4, a folding back section 10 is provided from the upper end to the bottom section 6 for a rectangular bag main body 2. This bag 1 for the filter comprises such a bag main body 2 and the hanging string 3 of which both end sections 3a and 3b are respectively fixed to both corner sections 2a and 2b on the upper side of the bag main body 2. In such a bag 1 for the filter, one end section 3a of the string 3 is fixed to one corner section 2a of the bag main body 2 in a space between the first sheet 4 and the folding back section 10. Then, the other end section 3b of the string 3 is fixed to the other corner section 2b from the outside of the folding back section 10. At the same time, the other corner section 2b forms one section of the bag main body 2 through an easy to cut area which makes the separation from the bag main body 2 possible for the bag for the filter having the



hanging string.

LEGAL STATUS

[Date of request for examination] 16.08.2002

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3683816

[Date of registration] 03.06.2005

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective view of the bag for filters which the hanging string took the side of.

[Drawing 2] The perspective view explaining the procedure used of the bag for filters in which the hanging string was attached.

[Drawing 3] The perspective view explaining the procedure used of the bag for filters in which the hanging string was attached.

[Drawing 4] The perspective view showing the condition of one side face of this bag shown in drawing 3.

[Description of Notations]

1 Bag

2 Body of Bag

2a The corner section

2b Other corners

3 Hanging String

3a End section

3b Other end

4 1st Sheet

5 2nd Sheet

6 Pars Basilaris Ossis Occipitalis

7 Junction Line

7a The 1st side edge section

7b The 2nd side edge section

8 Opening

9 Upper Limit Edge

10 1st Clinch Section

20 Infeed Section (Cutting Easy Part)

[Translation done.]

* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the suitable hanging restricted bag for filters to use it, when extracting components, such as dried bonito flakes, dried sardines, tea leaves, and coffee powder.

[0002]

[Description of the Prior Art] The so-called filter bag is indicated by JP,1-170658,U as this kind of a bag. the body of a bag of the rectangle which consists of permeable synthetic-fiber cloth in this filter bag -- ***** -- a streak of string is formed. The both ends are being fixed to the edges-on-both-sides section of the body of a bag, and ***** can take out the filter bag dipped into the pan which begins to boil dried bonito flakes by gathering the ***** by the interstitial segment of both ends.

[0003] JP,3-48056,Y -- as this kind of bag -- a pack -- the design is indicated. In this pack, a streak of string for fetch is formed in the bag body of the rectangle which consists of a nonwoven fabric etc. That end section has fixed in the corner section of a bag body, the other end is extended outside and this string forms the free edge. And when a square piece of paper is stuck on the free edge of this string for fetch and ***** is prepared, for example, if this ***** is taken out out of the pan in case it begins to boil the pack containing dried bonito flakes in a pan, this pack can be picked out from a pan to easy and insurance by gathering this *****.

[0004]

[Problem(s) to be Solved by the Invention] However, with the bag for the filters of the indication to said JP,1-170658,U, since the both ends of the string for ejection are being fixed to the bag, as chopsticks etc. are inserted between a bag and a string, a string is hooked on the chopsticks and a bag is lifted, it can take out from a pan. However, when pulled upwards by the string, opening in a bag opened the bag which hangs down from chopsticks at this time, and it had the problem of becoming easy to come out of a bag out of dried bonito flakes etc.

[0005] With the bag for the filters of the indication to said JP,3-48056,Y, since the end was free, the string for fetch of a pack had the problem of being easy to twine in case much packs are packed.

Moreover, that it is easy to gather this string's free end, in order and to make it easy to take out out of a pan and to hold, another members, such as a square piece of paper, needed to be attached in the edge.

[carry out] For this reason, the package of a pack became complicated, or components mark increased, and the rise of product cost was caused.

[0006] It was made in order to solve such a trouble, dried bonito flakes etc. begin to boil this invention at the time of use, and it aims at offering the bag for filters which the hanging string which components mark do not increase attached while an activity is easy and a package is easy at the time of manufacture.

[0007]

[Means for Solving the Problem] In order to solve said technical problem, a premised thing [this invention] The 1st sheet and the 2nd sheet with which a rectangle is presented and at least one side has liquid permeability Overlap, While opening is formed at the upper limit edges of said both sheets by unifying the 1st side edge section and the 2nd side edge sections of both [these] sheets, respectively A

pars basilaris ossis occipitalis is formed with said 1st sheet and 2nd sheet at the lower limit edge of said both sheets. The rectangular body of a bag with which the clinch part which goes to said lower limit edge from said upper limit edge is prepared in the outside of said 1st sheet, and it comes to unify each side edge section of said clinch part with the 1st and 2nd side edge section of said both sheets, It is the bag for filters which the hanging string which consists of a streak of hanging string with which each of both ends is being fixed to each of both the corners of the upper part of said bag body took the side of. [0008] In this premise, as for the description of this invention, the end section of said string's both ends is fixed to the corner section of said both corners between said 1st sheet and said clinch parts. cutting these whose other corners enable separation from said body of a bag while the other end of said string's both ends is fixed to the other corners of said both corners from the outside of said clinch part -- it is having accomplished said some of bodies of a bag through an easy part.

[0009]

[Embodiment of the Invention] Hereafter, this invention is explained to a detail based on the gestalt of operation shown in a drawing.

[0010] The gestalt of this operation applies this invention to the bag for filters which hanging strings of tea leaves, such as green tea and tea, took the side of.

[0011] Drawing 1 is the perspective view of the bag 1 for filters which the hanging string took the side of.

[0012] Drawing 2 is the perspective view of the bag 1 for filters which the hanging string for explaining the procedure used of this bag 1 took the side of.

[0013] Drawing 3 is also the perspective view of the bag 1 for filters which the hanging string for explaining the procedure used of this bag 1 took the side of.

[0014] Drawing 4 is the perspective view showing the condition of one side face of this bag 1 shown in drawing 3.

[0015] As shown in drawing 1, the bag 1 for filters which the hanging string took the side of is formed with the body 2 of a bag which consists of a liquid permeability nonwoven fabric which consists of a thermoplastic synthetic fiber, and a streak of hanging string 3 which consists of a twist string made from a thermoplastic synthetic fiber.

[0016] It is the thing of the rectangle formed by turning up said nonwoven fabric of one sheet, and the body 2 of a bag has the 1st sheet 4 located in a front face, and the 2nd sheet 5 located in a rear face, by the junction line 7, heat joining of the 2nd side edge section 7b of 1st side edge section 7a of the 1st sheet 4 and the 2nd sheet 5 is carried out, and, as for the 1st sheet 4 and the 2nd sheet 5, they are unifying it, respectively. Thus, by unifying, opening 8 is formed by upper limit edge 9 of these 1st sheet 4 and 2nd sheet 5. Moreover, since the nonwoven fabric is turned up, at the lower limit edge of the body 2 of a bag, the 1st sheet 4 and the 2nd sheet 5 are unified, and the pars basilaris ossis occipitalis 6 is formed by this 1st unified sheet 4 and 2nd unified sheet 5, and the above-mentioned junction line 7 by which heat joining was carried out.

[0017] By turning up said nonwoven fabric toward a pars basilaris ossis occipitalis 6 on the outside of the body 2 of a bag at the upper limit edge 9, the 1st clinch section 10 is formed, a nonwoven fabric is turned up by the 2nd sheet 5 toward a pars basilaris ossis occipitalis 6 in the inside of the body 2 of a bag at the upper limit edge 9, and the 2nd clinch section 11 is formed in the 1st sheet 4 at it. It unites with the 1st sheet 4 and the 2nd sheet 5 at the time of formation of said junction line 7 in both these 1st clinch section 10 and the 2nd clinch section 11.

[0018] As for the hanging string 3, end section 3a of the both ends 3a and 3b does as the first clinch section 10 and the 1st sheet 4. While coincidence heat joining is carried out to corner section 2a to which the upper limit edge 9 and a side edge cross at the time of formation of said junction line 7 by the junction line 7, on the front face of the 1st clinch section 10, heat joining of the other end 3b is carried out, and it is being fixed to other corner 2b of the opposite side in one with the body 2 of a bag. and -- the inside of other corner 2b of the body 2 of a bag with which a string's 3 other end 3b was fixed -- in order [in addition,] to make separation possible for corner 2b from the body 2 of a bag with a string 3 -- cutting -- the infeed section 20 which left slight ***** 21 by which heat joining of the string 3 is

carried out to the body 2 of a bag as an easy part, and was cut deeply aslant is formed. By this infeed section 20, other corner 2b is easily disengageable.

[0019] That is, the hanging string 3 is prolonged toward the pars basilaris ossis occipitalis 6 of the body 2 of a bag in between the 1st clinch section 10 and the 1st sheet 4 from the end section 3a, and comes from the lower limit of the 1st clinch section 10 outside. Furthermore, after the string 3 made the shape of radii like illustration on the front face of this 1st sheet 4 and securing the length required at the time of use of the body 2 of a bag, it extends along the front face of the 1st clinch section 10 toward other corner 2b, and that other end 3b is being fixed to other corner 2b in heat joining on the front face of the 1st clinch section 10. Moreover, before use, some bodies 2 of a bag are separated from the body 2 of a bag at the time of nothing and use, and other corner 2b serves as a string's 3 *****.

[0020] In addition, in case slant-like ***** 2c of the body 2 of a bag which remains by in addition to this separating corner 2b carries out heat welding of the string 3 on the front face of the 1st clinch section 10, heat joining of it is carried out to coincidence, and the closure is carried out to it.

[0021] Next, while explaining the operation of the bag 1 for filters, an operation of this bag 1 is explained.

[0022] The opening 8 of a bag 1 is opened and the tea leaves of optimum dose are put in.

[0023] Subsequently, as shown in the fictitious outline of drawing 1, while cutting out other corner 2b from the body 2 of a bag, the part of the body 2 of a bag shown with the dashed line is aslant folded up so that the 2nd sheet 5 may become inside, and a bag 1 is formed as shown in drawing 2.

[0024] Subsequently, as shown in drawing 3, the 1st clinch section 10 is over turned with the lower limit, and opening 8 is closed. A string 3 extends outside from between the 1st clinch sections 10 which turned over with the 1st sheet 4 and were carried out.

[0025] The amount of folding of the body 2 of a bag folded up aslant [above-mentioned] has desirable extent in which said junction line 7 appears slightly from the 1st clinch section 10 as drawn on drawing 4 which shows one side face of the opposite side of drawing 3. The amount of the tea leaves with which it is filled up is also adjusted so that such an amount of folding can be secured.

[0026] Moreover, since the 2nd clinch section 11 formed in the 2nd sheet 5 is located inside the body 2 of a bag as shown in a bag 1 at the broken line of drawing 1, even if the fill of tea leaves increases somewhat, it acts so that the tea leaves with which it was filled up in opening 8 may be covered, and the 1st clinch section 10 which closes opening 8, and the tea leaves with which it was filled up conjointly do not leak outside.

[0027] Subsequently, while putting a bag 1 into a teapot etc., the string 3 having been fixed and also ***** (ing) corner 2b, in addition to this, corner 2b is held besides a teapot etc. It dissociated from the body 2 of a bag, and also corner 2b carries out an operation of the spindle which prevents a selfish motion of a string 3, and holds the string 3 in the desired location.

[0028] After the extract of the component of tea leaves is made suitably, a bag 1 is picked out from a teapot etc., ***** (ing) corner 2b. Since other corner 2bs in this case are held besides the teapot etc., they can be ***** (ed) upwards easily, do not have the worries about the burn by the hot molten bath etc., and can take out a bag 1 to very easy and insurance.

[0029] Moreover, the operation at the time of manufacture of the bag 1 for filters which this hanging string took the side of is explained below.

[0030] Since the bag 1 is formed from the thermoplastic synthetic fiber also with the body 2 of a bag, and the hanging string 3, it can perform various immobilization mentioned above by heat joining.

[0031] Moreover, as mentioned above, since the overall length is stored in the front face of the body 2 of a bag in the shape of radii, in case many bags 1 are packed, the hanging string 3 cannot twine a bag 1 and can store it, while being fixed to the body 2 of a bag at the both ends 3a and 3b of the string 3 concerned. And when other corner 2b of the body 2 of a bag with which this thing [twining] does not exist and other end 3b of the string 3 concerned which is the means it enabled it to store was fixed is easily disengageable, it has an operation of killing two birds with one stone that the need of attaching another member in this string's 3 other end 3b can be abolished, and it can consider as *****.

[0032] For this reason, a package becomes complicated, or components mark increase, and it is not said

that the rise of product cost is caused.

[0033] Although the gestalt of the above-mentioned operation applies this invention to the bag for filters which hanging strings of tea leaves, such as green tea and tea, took the side of, this invention is that of not only the gestalt of this operation but dried bonito flakes, or dried sardines, and can be used for various extract applications, such as a juice extract and a coffee extract.

[0034] Although the nonwoven fabric of one sheet is used as a sheet which has liquid permeability, as for the gestalt of the above-mentioned operation, ingredients which have liquid permeability, such as not only a nonwoven fabric but porous plastic film, can be widely used for this invention. Moreover, the sheet of not only the sheet of one sheet but this ingredient of two sheets can also be used, and it can also use combining a different ingredient. Moreover, as long as one side of the sheet of two sheets is liquid permeability, another side may be non-liquid-permeable nature.

[0035] Although the gestalt of the above-mentioned operation forms all the components of a bag 1 from the thermoplastic synthetic fiber, not only a thermoplastic synthetic fiber but others, such as a natural fiber, can use this invention. When it fixes components, it is merely necessary to use the means for detachable of adhesives and others in the case of *Perilla frutescens* (L.) Britton var. *crispa* (Thunb.) Decne.

[0036] Although the gestalt of the above-mentioned operation is much more desirable to leakage prevention out of packing since the 2nd clinch section 11 turned up in the inside of the body 2 of a bag is formed in the 2nd sheet 5, this 2nd clinch section 11 is not necessarily required, and only first clinch section 10 can perform leakage prevention of packing.

[0037] Although other corner 2b is disengageable easily by forming the slanting infeed section 20 inside other corner 2b of the body 2 of a bag, the gestalt of the above-mentioned operation forms the thin film-like section which puts in not only this but a perforation, and even if it is easily disengageable in other corner 2b, it is good.

[0038]

[Effect of the Invention] While, as for the bag for filters which the hanging string concerning this invention took the side of, a hanging string's both ends are being fixed to both the corners of the body of a bag, respectively, a corner is disengageable from said body of a bag, and since it is ***** of this bag, while a package is easy, components mark are not increased on the occasion of the manufacture. Moreover, thereby, a manufacturing cost can be made cheap.

[0039] Moreover, since it dissociated from the body of a bag and also the corner is held besides the teapot etc. when this bag takes it out from a teapot etc., a user can **** this corner upwards easily, does not have the worries about the burn by the hot molten bath etc., and can pick out this bag from a container to very easy and insurance.

[Translation done.]

* NOTICES *

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The 1st sheet and the 2nd sheet with which a rectangle is presented and at least one side has liquid permeability Overlap, While opening is formed at the upper limit edges of said both sheets by unifying the 1st side edge section and the 2nd side edge sections of both [these] sheets, respectively A pars basilaris ossis occipitalis is formed with said 1st sheet and 2nd sheet at the lower limit edge of said both sheets. The rectangular body of a bag with which the clinch part which goes to said lower limit edge from said upper limit edge is prepared in the outside of said 1st sheet, and it comes to unify each side edge section of said clinch part with the 1st and 2nd side edge section of said both sheets, In the bag for filters which the hanging string which consists of a streak of hanging string with which each of both ends is being fixed to each of both the corners of the upper part of said bag body took the side of The end section of said string's both ends is fixed to the corner section of said both corners between said 1st sheet and said clinch parts. cutting these whose other corners enable separation from said body of a bag while the other end of said string's both ends is fixed to the other corners of said both corners from the outside of said clinch part -- the bag for said filters characterized by having accomplished said some of bodies of a bag through an easy part.

[Translation done.]

【特許請求の範囲】

【請求項1】 矩形を呈し少なくとも一方が透液性を有する第1シートと第2シートとが重なり合い、これら両シートの第1側縁部と第2側縁部どうしをそれぞれ一体化することにより前記両シートの上端縁部どうして開口が形成される一方、前記両シートの下端縁部で前記第1シートと第2シートとで底部が形成され、前記第1シートの外側には前記上端縁部から前記下端縁部に向かっての折り返し部分が設けられ、前記折り返し部分の側縁部それぞれが前記両シートの第1、第2側縁部とともに一体化されてなる矩形の袋本体と、前記袋本体上方の両隅部のそれぞれに両端部のそれぞれが固定されている一条の吊り下げひもとからなる吊り下げひもの付いたフィルタ用の袋において、前記ひもの両端部のうちの一端部が前記第1シートと前記折り返し部分との間において前記両隅部のうちの一端部に固定され、前記ひもの両端部のうちの他端部が前記折り返し部分の外側から前記両隅部のうちの他端部に固定されるとともに、該他端部は、前記袋本体からの分離を可能にする切断容易な部位を介して前記袋本体の一部を成していることを特徴とする前記フィルタ用の袋。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】この発明は、削り節や煮干し、茶葉、コーヒー粉末等の成分を抽出するときに使用するのに好適なフィルタ用の吊り下げひも付き袋に関する。

【0002】

【従来の技術】実開平1-170658号公報にはこの種の袋としてフィルタバッグなるものが開示されている。このフィルタバッグでは、透水性合成繊維布からなる矩形のバッグ本体に吊状体なる一条のひもが設けられている。吊状体は、その両端がバッグ本体の両側縁部に固定されており、両端の中間部分でその吊状体を摘むことによって、例えば削り節を煮出す鍋の中に浸されたフィルタバッグを取り出すことができる。

【0003】実公平3-48056号公報には、この種の袋としてバックなる考案が開示されている。このバックでは、不織布等からなる矩形の袋体に一条の取出用ひもが設けられている。このひもは、その一端部が袋体の一端部に固着されており、他端部が外部に延長されて自由端部を形成している。そして、この取出用ひもの自由端部に四角な紙片を貼着して摘持部を設けた場合は、例えば削り節の入ったバックを鍋で煮出す際に、この摘持部を鍋の外に出しておけば、この摘持部を摘むことにより該バックを鍋から容易かつ安全に取り出すことができる。

【0004】

【発明が解決しようとする課題】しかしながら、前記実開平1-170658号公報に開示のフィルタ用の袋で

は、取り出し用のひもの両端部が袋に固定されているから、袋とひもとの間に箸等を差し入れてその箸にひもを引掛けて袋を吊り上げるようにして鍋から取り出すことができる。しかし、このときに箸から垂れ下がる袋は、ひもが上方へ引張られた状態になることによって、袋の口が開き、削り節等が袋の外へ出易くなるという問題があった。

【0005】前記実公平3-48056号公報に開示のフィルタ用の袋では、バックの取出用ひもは、一端が自由になっているので、多数のバックを包装する際に絡まり易いという問題があった。また、該ひもの自由端を摘みやすくしたり、鍋の外に出して保持しやすくしたりするためには、端部に四角な紙片等の別部材を取り付ける必要があった。このため、バックの包装作業が煩雑になったり、部品点数が増えたりして製品コストの上昇を招いていた。

【0006】本発明は、このような問題点を解決するためになされたもので、使用時に削り節等の煮出し作業が容易であり、製造時に包装作業が容易であるとともに部品点数が増加することのない吊り下げひもの付いたフィルタ用の袋を提供することを目的とする。

【0007】

【課題を解決するための手段】前記課題を解決するために、本発明が前提としているものは、矩形を呈し少なくとも一方が透液性を有する第1シートと第2シートとが重なり合い、これら両シートの第1側縁部と第2側縁部どうしをそれぞれ一体化することにより前記両シートの上端縁部どうして開口が形成される一方、前記両シートの下端縁部で前記第1シートと第2シートとで底部が形成され、前記第1シートの外側には前記上端縁部から前記下端縁部に向かっての折り返し部分が設けられ、前記折り返し部分の側縁部それぞれが前記両シートの第1、第2側縁部とともに一体化されてなる矩形の袋本体と、前記袋本体上方の両隅部のそれぞれに両端部のそれぞれが固定されている一条の吊り下げひもとからなる吊り下げひもの付いたフィルタ用の袋である。

【0008】かかる前提において、この発明の特徴は、前記ひもの両端部のうちの一端部が前記第1シートと前記折り返し部分との間において前記両隅部のうちの一端部に固定され、前記ひもの両端部のうちの他端部が前記折り返し部分の外側から前記両隅部のうちの他端部に固定されるとともに、該他端部は、前記袋本体からの分離を可能にする切断容易な部位を介して前記袋本体の一部を成していることである。

【0009】

【発明の実施の形態】以下、本発明を図面に示す実施の形態に基づいて詳細に説明する。

【0010】この実施の形態は、本発明を緑茶、紅茶等茶葉の吊り下げひもの付いたフィルタ用の袋に適用したものである。

【0011】図1は、吊り下げひもの付いたフィルタ用の袋1の斜視図である。

【0012】図2は、同袋1の使用手順を説明するための吊り下げひもの付いたフィルタ用の袋1の斜視図である。

【0013】図3もまた、同袋1の使用手順を説明するための吊り下げひもの付いたフィルタ用の袋1の斜視図である。

【0014】図4は、図3に示す同袋1の一側面の状態を示す斜視図である。

【0015】図1に示すように、吊り下げひもの付いたフィルタ用の袋1は、熱可塑性合成繊維からなる透液性の不織布からなる袋本体2と、熱可塑性合成繊維製の燃りひもからなる一条の吊り下げひも3とによって形成されている。

【0016】袋本体2は、1枚の前記不織布を折り重ねることにより形成した矩形のもので、前面に位置する第1シート4と、後面に位置する第2シート5とを有し、第1シート4と第2シート5とは、第1シート4の第1側縁部7aと第2シート5の第2側縁部7bどうしが接合線7で熱溶着されてそれぞれ一体化している。このように一体化することにより、これらの第1シート4と第2シート5との上端縁部9どうしで開口8が形成されている。また、不織布は折り重ねられているので、袋本体2の下端縁部では、第1シート4と第2シート5とは一体化しており、この一体化した第1シート4と第2シート5と、前述の熱溶着された接合線7とにより底部6が形成されている。

【0017】第1シート4には、前記不織布が上端縁部9で袋本体2の外側へ底部6に向かって折り重ねられることによって第1折り返し部10が設けられ、第2シート5には、不織布が上端縁部9で袋本体2の内側へ底部6に向かって折り重ねられて第2折り返し部11が形成されている。これら第1折り返し部10および第2折り返し部11とはともに前記接合線7の形成時に第1シート4および第2シート5に一体化されている。

【0018】吊り下げひも3は、その両端部3a、3bの一端部3aが第1折り返し部10と第1シート4との間にあって、前記接合線7の形成時に上端縁部9と側縁とが交差する一隅部2aに接合線7で同時熱溶着される一方、他端部3bが反対側の他隅部2bに第1折り返し部10の表面で熱溶着されて、袋本体2と一体的に固定されている。そして、ひも3の他端部3bが固定された袋本体2の他隅部2bの内側には、この他隅部2bをひも3とともに袋本体2から分離を可能にするために、切断容易な部位として、袋本体2にひも3が熱溶着されているわずかな共溶着部21を残して斜めに切り込んだ切込み部20が形成されている。この切込み部20により、他隅部2bは、容易に分離可能となっている。

【0019】すなわち、吊り下げひも3は、その一端部

3aから第1折り返し部10と第1シート4との間を袋本体2の底部6に向かって延びて、第1折り返し部10の下端から外に出る。さらに、ひも3は、この第1シート4の表面で図示のように円弧状をなして袋本体2の使用時に必要な長さを確保した上で他隅部2bに向かって第1折り返し部10の表面に沿って延びて、その他端部3bが他隅部2bに第1折り返し部10の表面で熱溶着にて固定されている。また、他隅部2bは、使用前には、袋本体2の一部をなし、使用時には、袋本体2から分離されてひも3の摘持部となっている。

【0020】なお、この他隅部2bが分離されることにより残る袋本体2の斜め状辺部2cは、ひも3を第1折り返し部10の表面で熱溶着する際に、同時に熱溶着されて封止されている。

【0021】次に、フィルタ用の袋1の使用方法を説明するとともに該袋1の作用を説明する。

【0022】袋1の開口8を開いて適量の茶葉をいれる。

【0023】ついで、図1の想像線に示すように、他隅部2bを袋本体2から切り取るとともに1点鎖線で示された袋本体2の部分を第2シート5が内側になるように斜めに折り畳み、袋1を図2に示すように形成する。

【0024】ついで、図3に示すように、第1折り返し部10をその下端をもって裏返して開口8を閉じる。ひも3は、第1シート4と裏返しされた第1折り返し部10との間から外に延出する。

【0025】前述の斜めに折り畳む袋本体2の折り畳み量は、図3の反対側の一側面を示す図4に描かれているように、前記接合線7が第1折り返し部10からわずかに現れる程度が好ましい。このような折り畳み量を確保できるように、充填する茶葉の量も加減する。

【0026】また、袋1には、図1の破線に示すように、第2シート5に形成した第2折り返し部11が袋本体2の内側に位置しているので、多少茶葉の充填量が多くなっても、開口8において充填した茶葉を覆うように作用し、開口8を閉じる第1折り返し部10と相俟って充填した茶葉が外に漏れることはない。

【0027】ついで、ひも3が固定された他隅部2bを摘持しながら袋1を急須等に入れるとともにこの他隅部2bを急須等の外に保持する。袋本体2から分離された他隅部2bは、ひも3の勝手な動きを防止する錘の作用をし、ひも3を所望の位置に保持している。

【0028】茶葉の成分の抽出が適当になされた後、この他隅部2bを摘持しながら袋1を急須等から取り出す。この際、この他隅部2bは急須等の外に保持されているので、容易に摘持することができる上に高温の湯によるやけどなどの心配もなく極めて容易かつ安全に袋1を取り出すことができる。

【0029】また、次に、この吊り下げひもの付いたフィルタ用の袋1の製造時における作用を説明する。

【0030】袋1は、袋本体2および吊り下げひも3とも熱可塑性合成繊維から形成されているので、前述した様々な固定を熱溶着で行うことができる。

【0031】また、袋1は、前述のように吊り下げひも3が、当該ひも3の両端部3a、3bで袋本体2に固定されているとともにその全長は袋本体2の表面に円弧状に収められているので、多数の袋1を包装する際に絡まることがなく収めることができる。しかも、この絡まることがなく収めることができるようにした手段である当該ひも3の他端部3bが固定された袋本体2の他隅部2bが、容易に分離可能となっていることにより、該ひも3の他端部3bに別部材を取り付ける必要をなくして摘持部とすることができるという一石二鳥の作用を有する。

【0032】このため、包装作業が煩雑になったり、部品点数が増えたりして製品コストの上昇を招くということがない。

【0033】前述の実施の形態は、本発明を緑茶、紅茶等茶葉の吊り下げひもの付いたフィルタ用の袋に適用したものであるが、本発明は、この実施の形態に限らず、削り節や煮干しのだし汁抽出、コーヒーの抽出等様々な抽出用途に利用することができる。

【0034】前述の実施の形態は、透液性を有するシートとして一枚の不織布を用いているが、本発明は、不織布に限らず多孔性のプラスチックフィルム等、透液性を有する材料を広く用いることができる。また、一枚のシートに限らず二枚の同材料のシートを用いることもできるし、異なる材料を組み合わせて用いることもできる。また、二枚のシートは、一方が透液性であれば、他方は不透液性であってもよい。

【0035】前述の実施の形態は、袋1の構成材料をすべて熱可塑性合成繊維から形成しているが、本発明は、熱可塑性合成繊維に限らず天然繊維等その他も利用することができる。ただしその場合は、構成材料同士を固定する場合に接着剤その他の固着手段を用いる必要がある。

【0036】前述の実施の形態は、第2シート5には袋本体2の内側へ折り重ねられた第2折り返し部11が形成されているので、充填物の外への漏れ防止に一層好ましいが、この第2折り返し部11は必ずしも必要ではなく、第一折り返し部10のみでも充填物の漏れ防止を行うことができる。

【0037】前述の実施の形態は、袋本体2の他隅部2bの内側に、斜めの切込み部20を形成することによ

り、他隅部2bが容易に分離可能になっているが、これに限らず、ミシン目を入れる、薄膜状部を形成するなどして他隅部2bを容易に分離可能にしてもよい。

【0038】

【発明の効果】本発明に係る吊り下げひもの付いたフィルタ用の袋は、吊り下げひもの両端部が袋本体の両隅部にそれぞれ固定されているとともに、その他隅部は前記袋本体から分離可能で、該袋の摘持部となっているので、その製造に際して、包装作業が容易であるとともに部品点数を増加することがない。また、これにより、製造コストを安価にすることができる。

【0039】また、該袋は、それを例えば急須等から取り出すときに、袋本体から分離された他隅部が急須等の外に保持されているので、使用者は、この隅部を容易に摘持することができる上に高温の湯によるやけどなどの心配もなく、極めて容易かつ安全にこの袋を容器から取り出すことができる。

【図面の簡単な説明】

【図1】吊り下げひもの付いたフィルタ用の袋の斜視図。

【図2】吊り下げひもの付いたフィルタ用の袋の使用手順を説明する斜視図。

【図3】吊り下げひもの付いたフィルタ用の袋の使用手順を説明する斜視図。

【図4】図3に示す同袋の一側面の状態を示す斜視図。

【符号の説明】

- | | |
|----|---------------|
| 1 | 袋 |
| 2 | 袋本体 |
| 2a | 一隅部 |
| 2b | 他隅部 |
| 3 | 吊り下げひも |
| 3a | 一端部 |
| 3b | 他端部 |
| 4 | 第1シート |
| 5 | 第2シート |
| 6 | 底部 |
| 7 | 接合線 |
| 7a | 第1側縁部 |
| 7b | 第2側縁部 |
| 8 | 開口 |
| 9 | 上端縁部 |
| 10 | 第1折り返し部 |
| 20 | 切込み部（切断容易な部位） |

